Sustainable Construction Checklist

Please complete the following checklist as far as it is relevant to your proposal.

Not all rows will be relevant to all proposals. If a row is not applicable please mark it as 'N/A'.

A completed copy of this checklist is a **validity requirement** for all major applications as well as non-major applications which propose one or more new dwellings.

CHELTENHAM
BOROUGH COUNCIL

Area	Measure	Description	Metric	Proposed Delivery (Please complete this column)
Operational Net Zero	**Fabric First Approach (Space Heating Demand)**	Buildings should use energy efficiently. Space heating demand expresses the amount of energy and building needs for heating and is impacted by site and orientation, window design, form, building fabric, materials and detailing, and ventilation.	15-20 kWh/m^2 per year (SAP DFEE)	
Operational Net Zero	**Energy Efficiency in Operation (EUI)**	Energy Use Intensity (EUI) expresses the total amount of energy a building uses (per m2 per year) and can only be measured meaningfully in-use through the energy meter, so we don't include this during the evaluation process.	35kWh/M^2 per year	
Operational Net Zero	**Low Carbon Heating**	All new buildings should be built with a low carbon heating system (GSHP, ASHP or district heating system), rather than using gas boilers, connecting to the gas network.	Specify Type	
Operational Net Zero	**Renewable Energy Generation**	In new buildings, annual renewable energy generation should be at least equal to the energy use of the building (the EUI) . If this is not possible on site, it should be demonstrated that the equivalent of 120 kWh/m2	Balance EUI OR 120 kWh/m^2 /yr footprint	

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		(footprint)/yr of renewable energy is generated across the development.		
Operational Net Zero	**Adaptation Risk**	Has overheating risk been considered in the design?	Yes/ No	
Operational Net Zero	**Overall - Net Zero Operational Carbon Delivered**	Is Net Zero operational carbon achieved	Yes/ No	
Embodied Carbon	**Embodied Carbon**	Upfront embodied carbon includes the carbon emissions associated with the extraction and processing of materials, energy use in the factories and transport as well as the construction of the building. As buildings decarbonise their energy use, embodied carbon becomes an increasingly significant source of emissions to tackle. All developments should seek to minimise upfront embodied carbon and monitor progress against the SPD targets.	350 kgCO2e/m2 /yr	
Flood management	**Natural Flood Management Techniques**	Are natural flood risk techniques and SUDs being used on the site as required?	Balance of SUDS against four objectives pillars (Flood risk, Water Quality, Amenity, Biodiversity)	

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Sustainable Transport	**Cycle Storage**	Is convenient, well lit, secure cycle storage being included?	Yes/ No	
Sustainable Transport	**Other Measures**	Is sustainable transport being enabled?	Yes/ No	
Water Use	**Water use**	Is water being used efficiently?	<105 l/p/d.	
Waste	**Storage**	Do you provide adequate space, both inside and outside the building, for waste recycling and storage?	Yes/ No	
Waste	**Waste Minimisation During Construction**	Have you completed a waste minimisation statement, incorporated targets and site management processes to minimise water consumption through construction and minimise and recycle waste, reducing waste going to landfill?	Yes/ No	